


```
-- END Q2
```

```
--
```

```
-- BEGIN Q3
```

```
SELECT publication.id AS publicationID,title
FROM publication
INNER JOIN coauthors ON publication.id = coauthors.publicationID
INNER JOIN researcher ON coauthors.authorID = researcher.id
WHERE firstname = 'Renata' AND lastname = 'Borovica-Gajic' AND (endpage -
startpage) >= 10;
```

```
-- END Q3
```

```
--
```

```
-- BEGIN Q4
```

```
SELECT publication.id AS publicationID, publication.title,
COUNT(referencingPublicationID) AS citationCount
FROM publication
LEFT JOIN referencing ON publication.id = referencing.referencedPublicationId
GROUP BY publication.id
HAVING COUNT(referencingPublicationID) = (
    SELECT count(referencingPublicationID)
    FROM referencing
    GROUP BY referencedPublicationId
    ORDER by count(referencingPublicationID) DESC
    LIMIT 1
);
```

```
-- END Q4
```

```
--
```

```
-- BEGIN Q5
```

```
SELECT publication.id AS publicationID, documentUrl
FROM publication
INNER JOIN publication_has_keyword ON publication.id =
publication_has_keyword.publicationID
INNER JOIN keyword ON keyword.id = publication_has_keyword.keywordId
WHERE (word = 'Databases') AND publication.id IN (
    SELECT referencedPublicationId FROM referencing
);
```

```
-- END Q5
```

```
--
```

```
-- BEGIN Q6
```

```

SELECT DISTINCT firstName, lastName
FROM researcher
INNER JOIN coauthors ON coauthors.authorId = researcher.id
INNER JOIN referencing ON coauthors.publicationId =
referencing.referencedPublicationId
WHERE coauthors.authorId IN(
SELECT authorID
FROM coauthors
WHERE coauthors.PublicationID IN (
SELECT publicationId
FROM topten
)
)
GROUP BY researcher.id
HAVING COUNT(referencingPublicationID) >= 2;

```

```
-- END Q6
```

```
--
```

```
-- BEGIN Q7
```

```

SELECT keyword.id AS keywordID, keyword.word
FROM keyword
INNER JOIN publication_has_keyword ON keyword.id =
publication_has_keyword.keywordId
INNER JOIN topten ON topten.publicationId = publication_has_keyword.publicationId
GROUP BY keyword.id
HAVING COUNT(DISTINCT topten.publicationId) = (
SELECT COUNT(DISTINCT topten.publicationId)
FROM publication_has_keyword
INNER JOIN topten ON topten.publicationId = publication_has_keyword.publicationID
GROUP BY publication_has_keyword.keywordId
ORDER BY COUNT(DISTINCT topten.publicationId) DESC
LIMIT 1
);

```

```
-- END Q7
```

```
--
```

```
-- BEGIN Q8
```

```

SELECT firstName, lastName, COUNT(referencing.referencingPublicationId) AS

```

```

totalCitationCount
FROM researcher
LEFT JOIN coauthors ON coauthors.authorId = researcher.id
LEFT JOIN referencing ON coauthors.publicationId =
referencing.referencedPublicationId
GROUP BY researcher.id
HAVING COUNT(referencing.referencingPublicationId) = (
SELECT COUNT(referencing.referencingPublicationId)
FROM coauthors
LEFT JOIN referencing ON coauthors.publicationId =
referencing.referencedPublicationId
GROUP BY coauthors.authorId
ORDER BY COUNT(referencing.referencingPublicationId) DESC
LIMIT 1);

```

```

-- END Q8
--

```

```

-- BEGIN Q9
SELECT DISTINCT data_base.firstName, data_base.lastName
FROM researcher AS data_base
INNER JOIN coauthors AS author1 ON data_base.id = author1.authorId
INNER JOIN coauthors AS author2 ON author2.publicationId = author1.publicationId
INNER JOIN researcher AS machine_learning ON machine_learning.id = author2.authorId
WHERE data_base.id IN (
SELECT researcherID
FROM researcher_has_keyword
WHERE keywordId IN(SELECT id FROM keyword WHERE word = 'Databases')
)
AND machine_learning.id IN(
SELECT researcherID
FROM researcher_has_keyword
WHERE keywordId IN(SELECT id FROM keyword WHERE word = 'Machine learning')
)
AND data_base.id != machine_learning.id;

```

```

-- END Q9
--

```

```

-- BEGIN Q10
SELECT firstName, lastName
FROM researcher
WHERE researcher.id IN (
SELECT authorId
FROM coauthors
WHERE publicationId IN(
SELECT publication.id
FROM researcher
INNER JOIN coauthors ON researcher.id = coauthors.authorId
INNER JOIN publication ON publication.id = coauthors.publicationId

```

```
WHERE firstName = 'Renata' AND lastName = 'Borovica-Gajic' AND dateOfPublication <
'2023-01-01'
)
)
AND researcher.id NOT IN(
SELECT authorId
FROM coauthors
WHERE publicationId IN(
SELECT publication.id
FROM researcher
INNER JOIN coauthors ON researcher.id = coauthors.authorId
INNER JOIN publication ON publication.id = coauthors.publicationId
WHERE firstName = 'Renata' AND lastName = 'Borovica-Gajic' AND dateOfPublication >=
'2023-01-01'
)
)
AND firstName != 'Renata' AND lastName != 'Borovica-Gajic';
```

```
-- END Q10
--
```

```
-- END OF ASSIGNMENT Do not write below this line
```